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 CENTRAL INTELLIGENCE AGENCY

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INFORMATION REPORT

**CONFIDENTIAL**

COUNTRY France

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SUBJECT Research in Progress at the French Ballistic and Aerodynamic Research Laboratory - St. Louis

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1. The following are some of the current projects of the French Ballistic and Aerodynamic Research Laboratory being directed by Dr. Hubert Schardin:

a. Steered detonation - Dr. Bernhard Koch is working on a detonator without wiring (drahtloser Zünder). Based on an American model given Koch about two years ago for study and development, this detonator is to be built in the head of a projectile equipped with a small transmitter emitting radio waves. Part of the waves will be reflected by the target when the projectile passes near it, detonating the projectile.

b. Ultrasonic research: A group led by Professor Saur, formerly at the Aachen Technische Hochschule, is working on ultrasonic findings for ballistics. Saur is assisted by Professor Sauter, formerly professor of theoretical physics at Munich University.

c. Gas Discharge: Dr. Fünfer, Dr. Rössler and a staff of specialists are working on problems of gas discharges for the production of light flashes required to photograph projectiles in flight.

2. Current ballistical research at the Laboratory also involves motion picture photography of projectiles in flight and photographing of air currents surrounding projectiles in flight. The latter calls for interference equipment (Interferenz Apparat).

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